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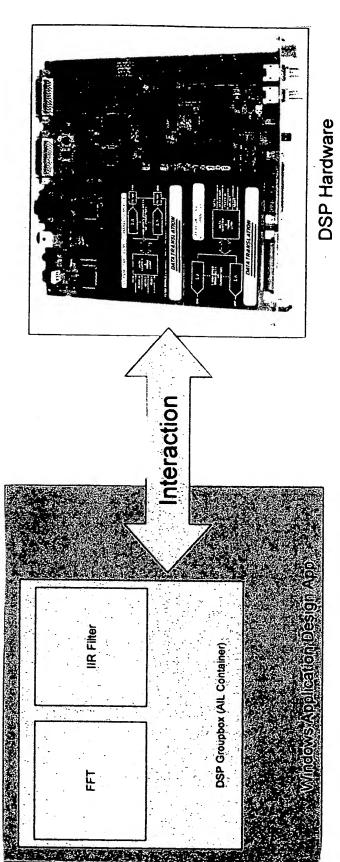
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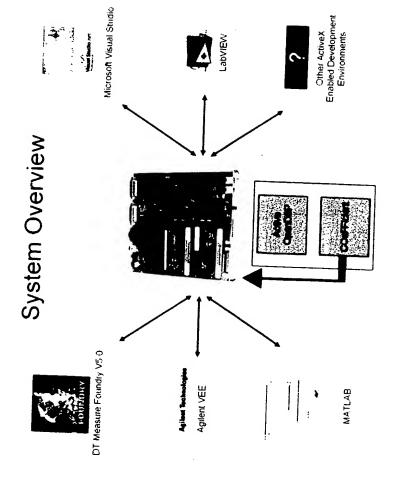
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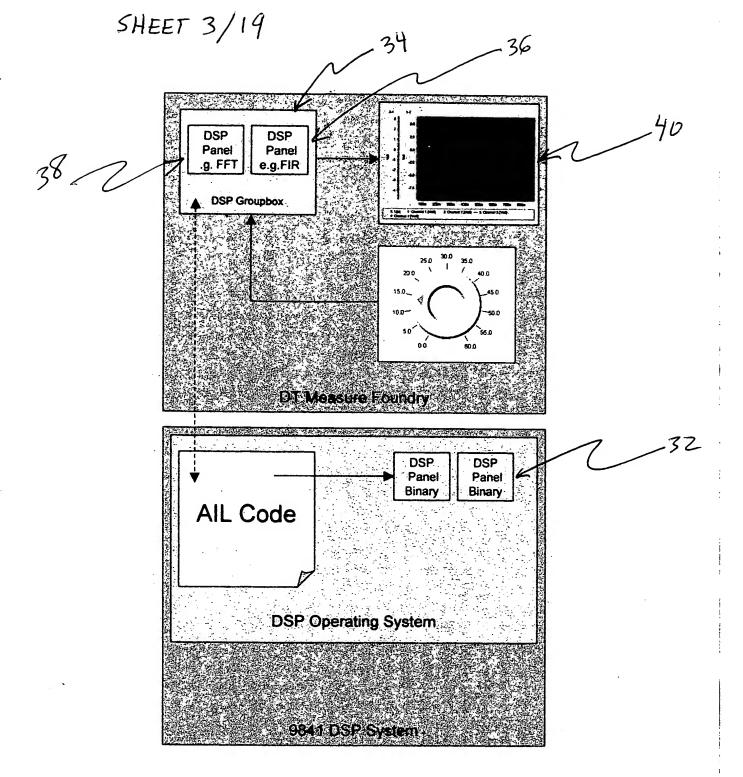
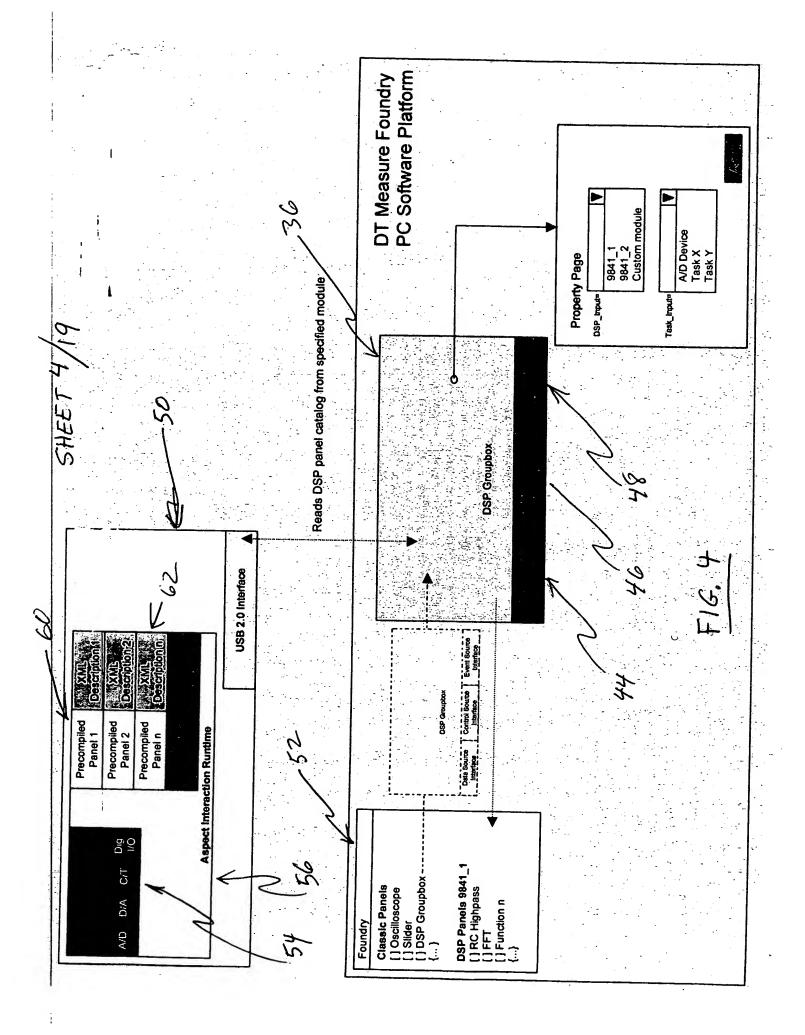
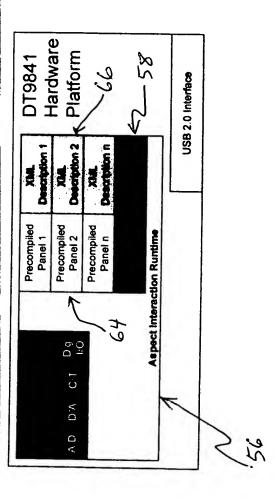


Fig. 3



DT Measure Foundry

Start Procedure



DT Measure Foundry PC Software Platform

Browses BPL's on harddisk and creates the classic DTMF panels

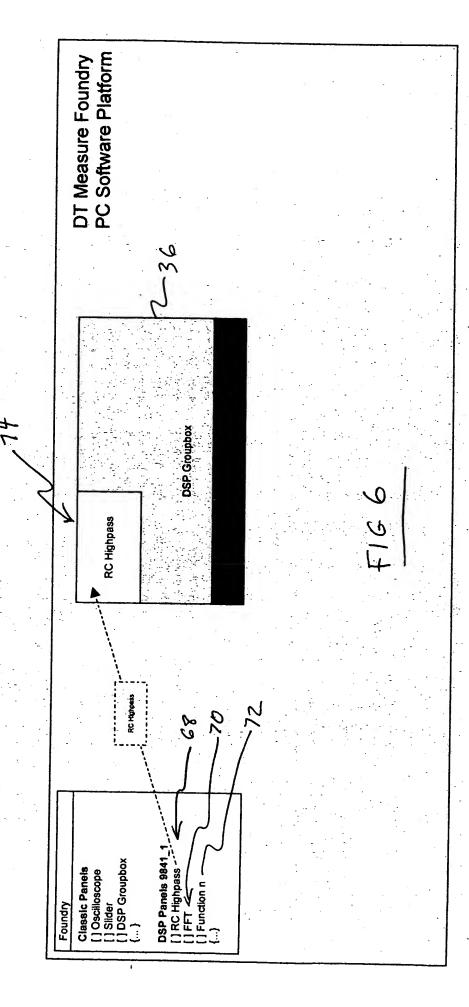
Classic Panels
[] Oscilloscope
[] Sider
[] DSP Groupbox
{...}

Foundry

SHEET 6/19

DT9841 Hardware Platform USB 2.0 Interface Precompiled Panel 2 Precompiled Panel 1 Precompiled Panel n Aspect Interaction Runtime C/T A D D/A

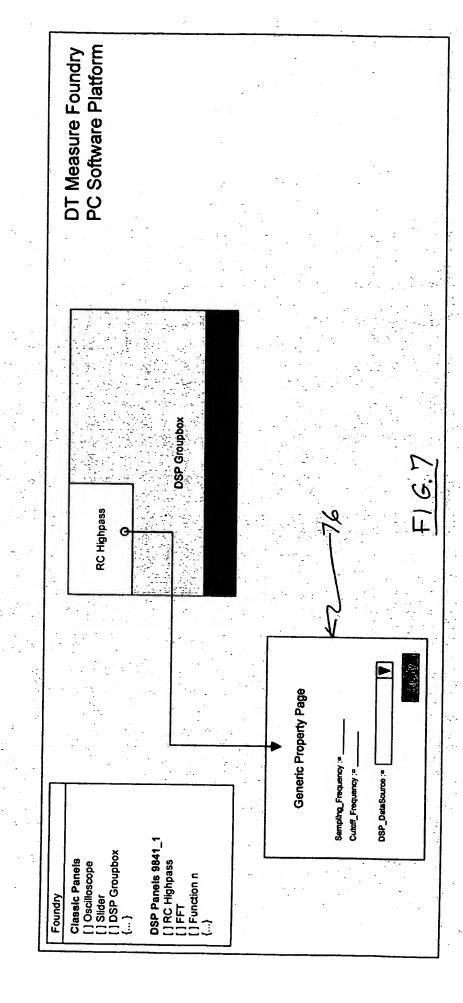
Putting a DSP Function Panel on a DSP Groupbox



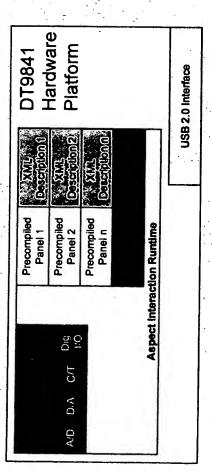
SHEET 7/19

A/D DA C/T D/g Precompiled XML Description 1 Panel 1 Description 1 Hardware Panel 2 Description 2 ML Panel 2 Description 2 ML Panel 3 Panel 1 Description 2 ML Panel 2 Description 3 ML Panel 3 Description 3 Description

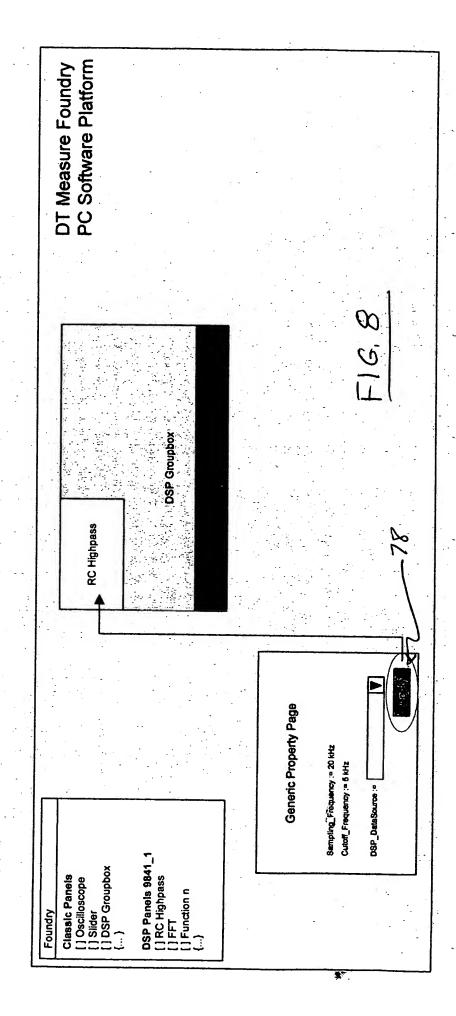
DT Measure Foundry Open the generic Property page



SHEET 8/19



DT Measure Foundry Send the configuration Data back to the component



SHEET 4/19

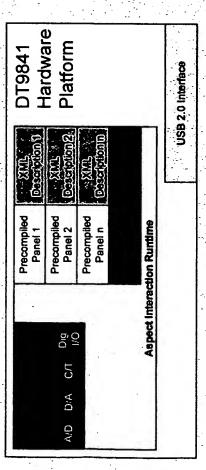
DT Measure Foundry Putting a DSP Function Panel Hardware Platform **DT9841** USB 2.0 Interface Precompiled Panel n Precompiled Panel 2 Precompiled Panel 1 Aspect Interaction Runtime D'A C/T AID

DT Measure Foundry PC Software Platform

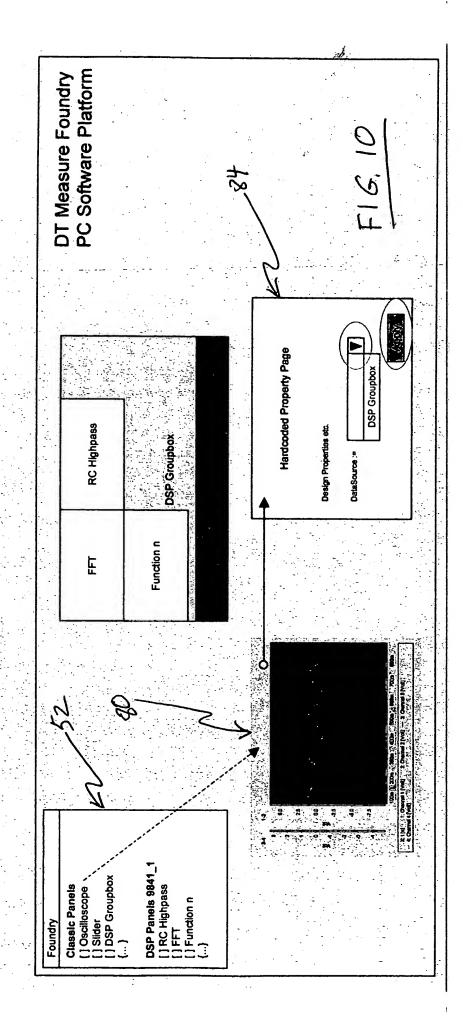
RC Highpass DSP Groupbox H DSP Panels 9841_1 [] RC Highpass [] FFT [] Function n {...} Classic Panels
[] Oscilloscope
[] Slider
[] DSP Groupbox Foundry

10

SHEET 10/19



DT Measure Foundry Add Classic Component and Configure



SHEET 11/19

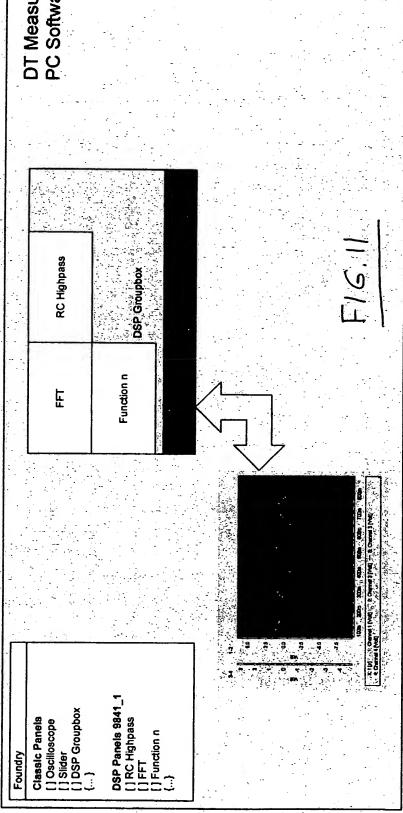
DT Measure Foundry Add Classic Components

Aspect Interaction Runtime

Precompiled STATE | DT9841

Panel 1 Description | Hardware Precompiled STATE | Platform Panel n Description n Desc

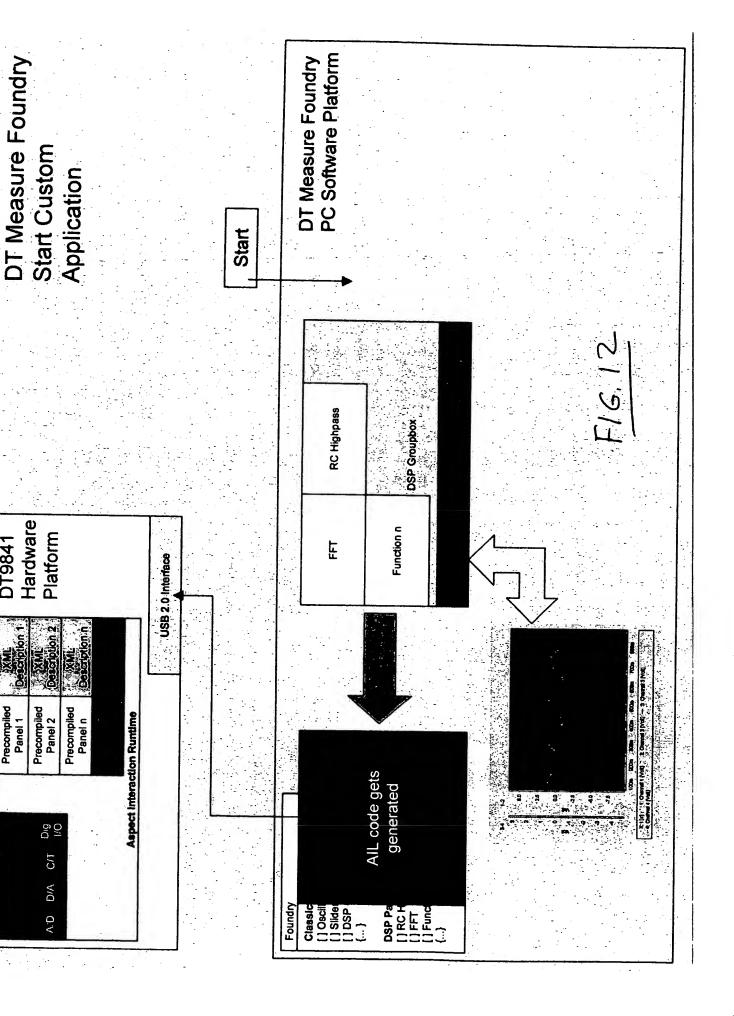
DT Measure Foundry PC Software Platform



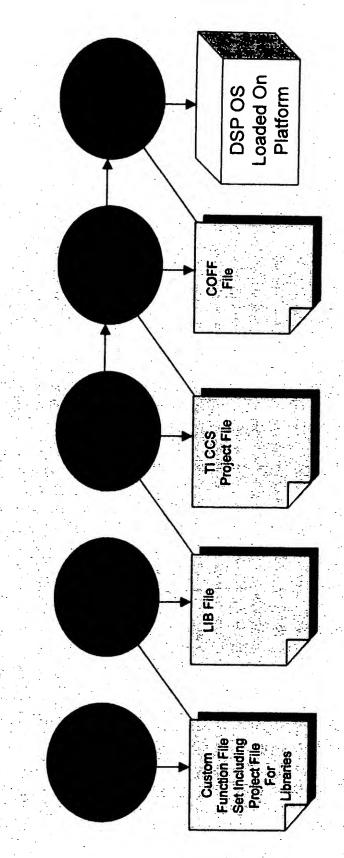
SHEET 12/14

DT9841

Precompiled Panel 1

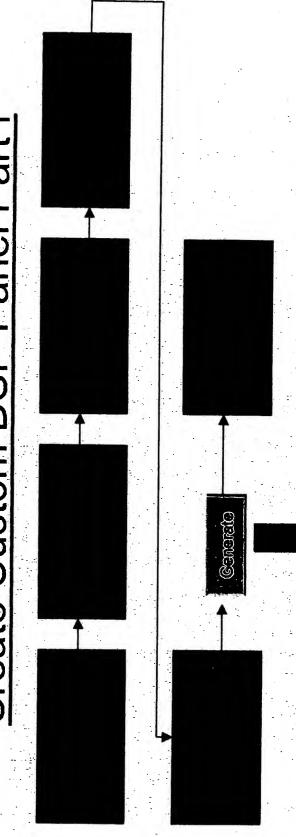


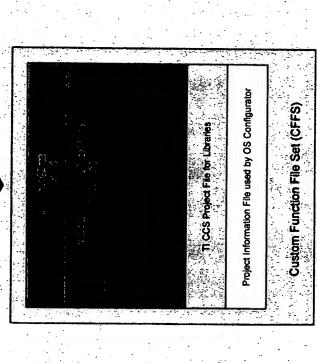
Overview



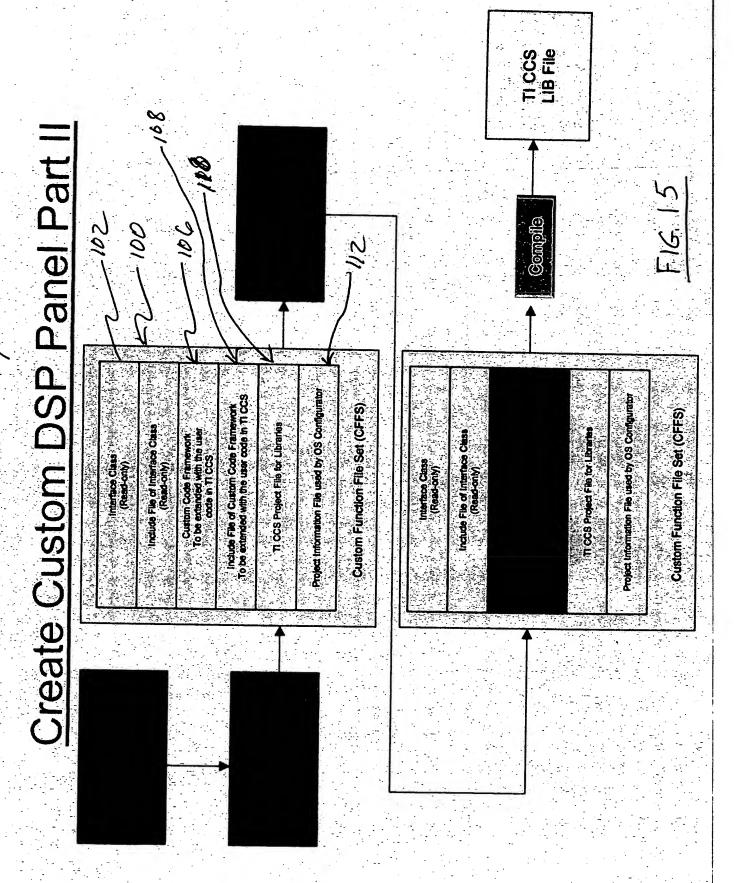
5 Steps are necessary to build a custom 9841 operating system Each step can be done manually or by using wizards

Create Custom DSP Panel Part





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SHEET 16/19

Comparator	O/A output single value (control line)	D/A output buffered signal generator	
Initialization	Finalization	Data Counter	
Action Counter	Event Client	Value Pipe	
Hub -	Trigger	Digital Input	
Digital Output	Counter	Host Connection	
Intertask Connection	Task Controller		
Real FFT	Forward Lattice Radix 2	•	
•	{}		
	Computing Vector L Similar Function Set	ib or	
se Funct	ion Library	,	

SHEET 17/19

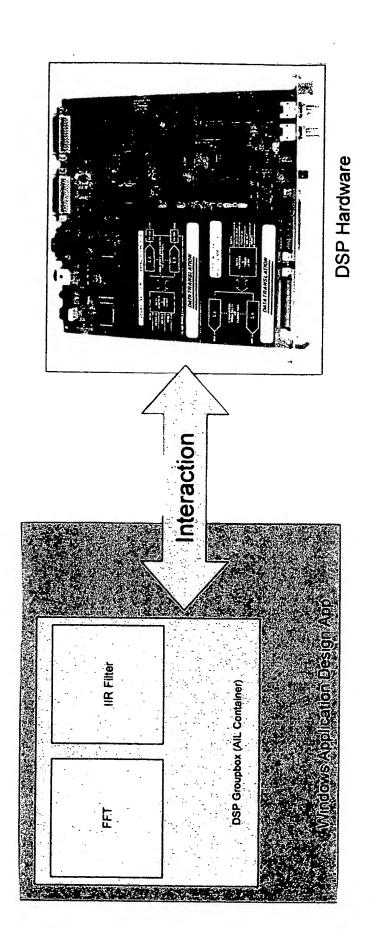
	Data Source Interface
	Control Interface
	Event Interface
	DSP Groupbox
	COFF File Loader Component
	Instrumentation Panel
Distributi	ion Wizard Extensions for Distribution of DSP Operating Systems (COFF)
[DTMF Implementation

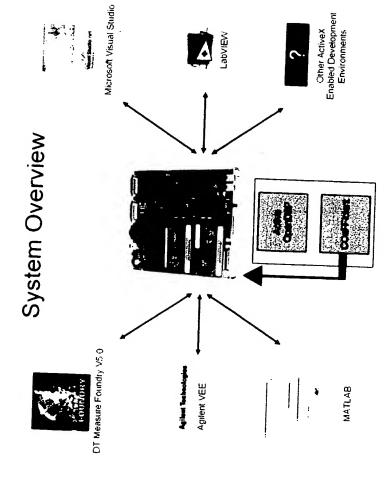
SHEET 18/19

Example Code
TI DSP Express Compatible Wrapper Temptate for Algorithm Standard
Custom Framework Wizard
TOWN THEBU
OS Configurator
OS Loader
Dynamia Function Library
Dynamic Function Library

SHEET 19/19

_		* *
	Aspect Interaction Language Pare (AlLP)	BF .
		- A/D D/A
		C/T Dig. IC
	Resource Manager	
	X *	
	Instrumentation Manager (RM)	*
	Memory Management for Component to	Component Connections
[Frame Management (Buffered Mod	e Data Acquisition)
	Core Classes (CC)	





F16 2

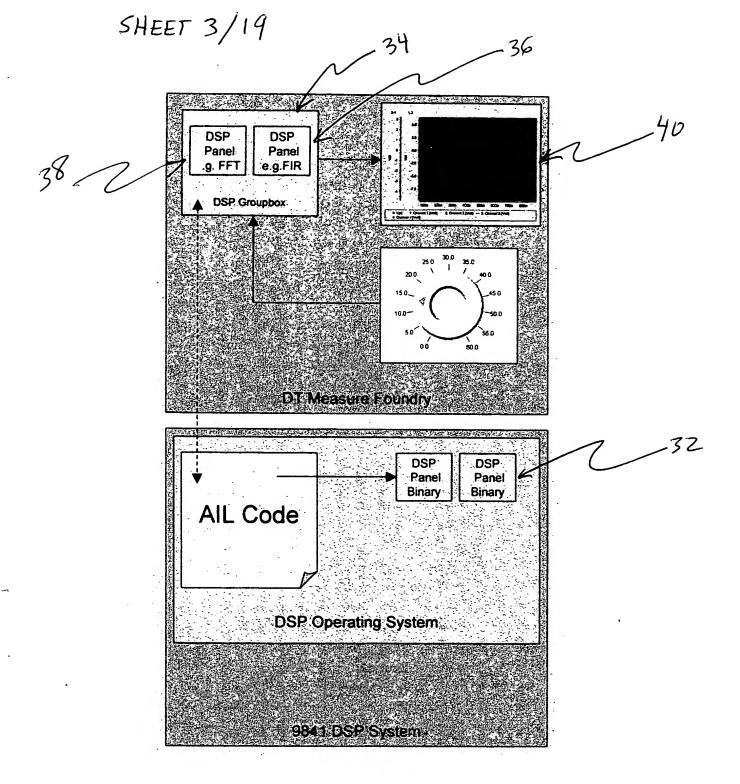
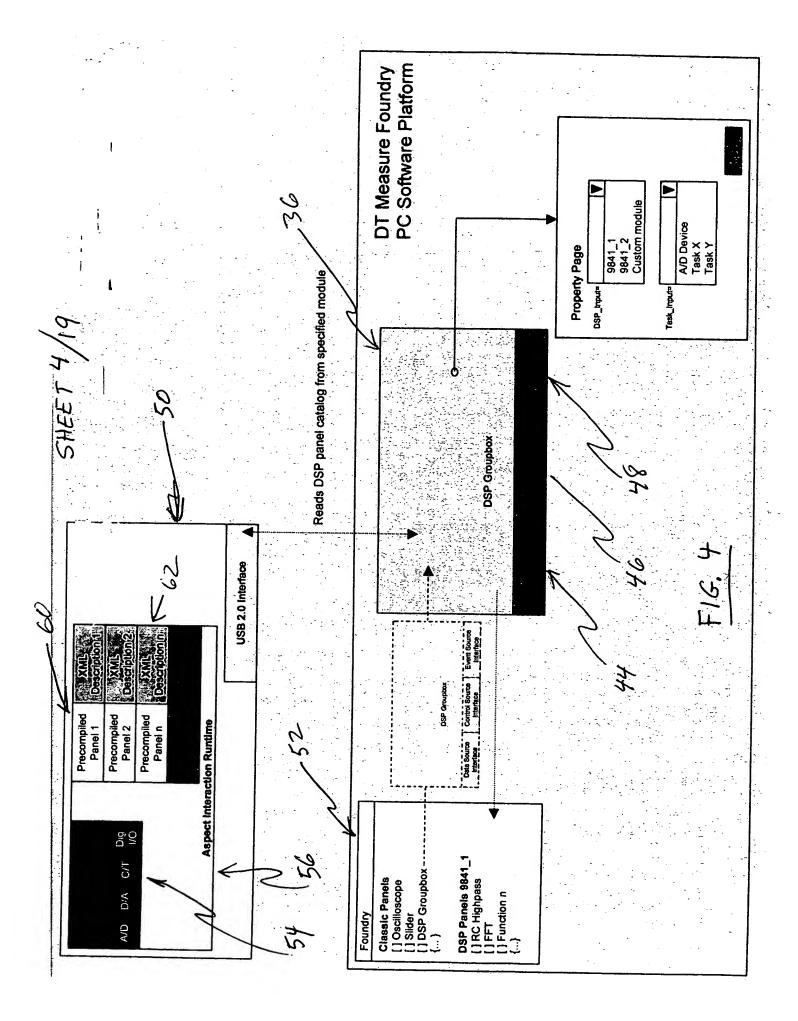
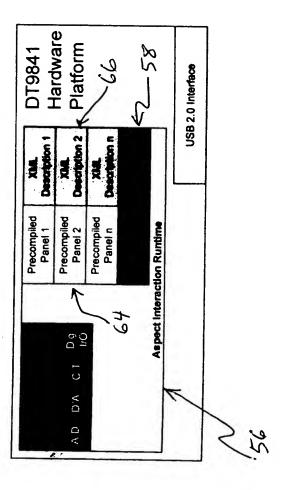


Fig. 3



DT Measure Foundry

Start Procedure



DT Measure Foundry PC Software Platform

Browses BPL's on harddisk and creates the classic DTMF panels

Classic Panels
[] Oscilloscope
[] Slider
[] DSP Groupbox
{...}

Foundry

DT Measure Foundry PC Software Platform Panel on a DSP Groupbox SHEET 6/19 RC Highpass Hardware Platform DT9841 USB 2.0 Interface Precompiled Panel 1 Precompiled Panel 2 Precompiled Panel n Aspect Interaction Runtime Dig 1/0 USP Panels 9841_1 [] RC Highpass - [] FFT <-[] Function n $C_i T$ Classic Panels
[] Oscilloscope
[] Slider
[] DSP Groupbox D:A Foundry

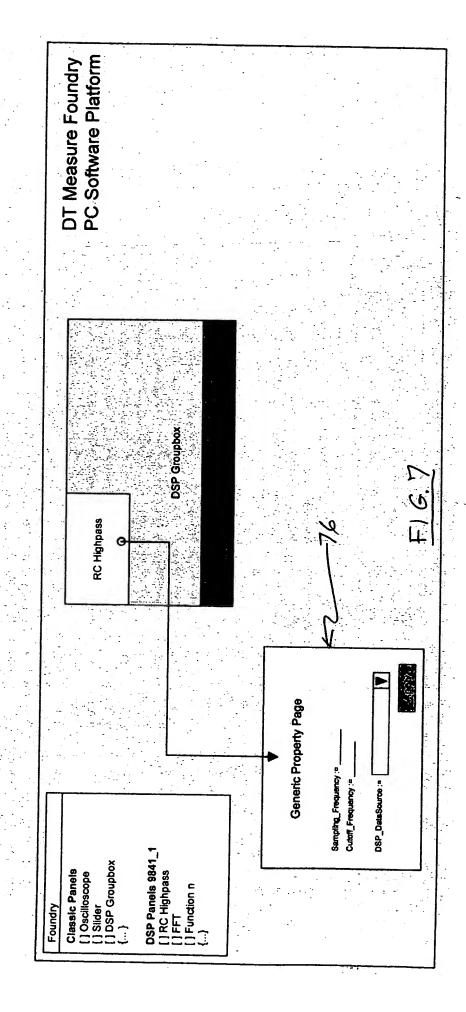
Putting a DSP Function

SHEET 7/19

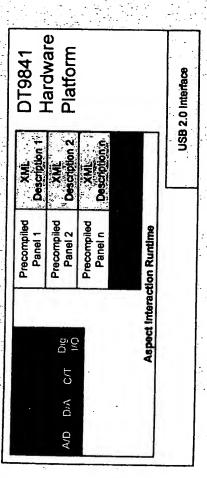
Aspect Interaction Runtime

Percompiled XML Hardware Precompiled XML Hardware Precompiled XML Platform Panel 1 Description 2 Platform Panel n Description n

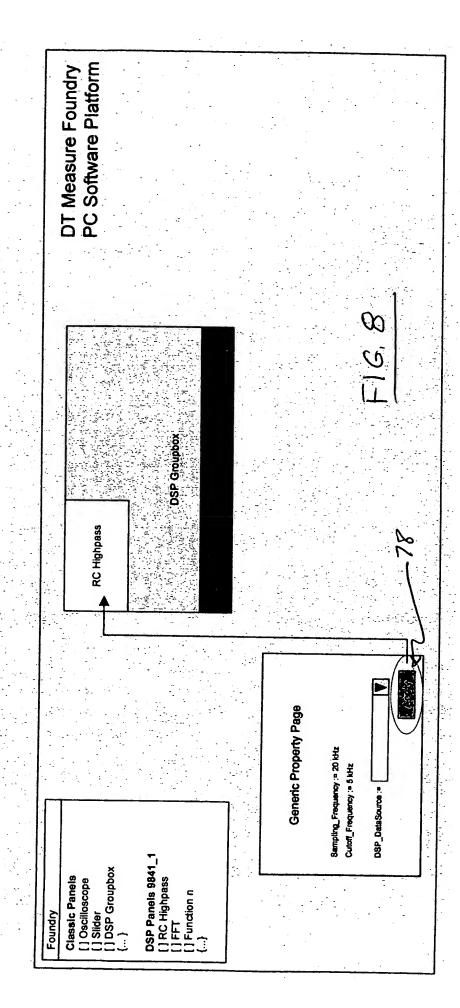
DT Measure Foundry Open the generic Property page



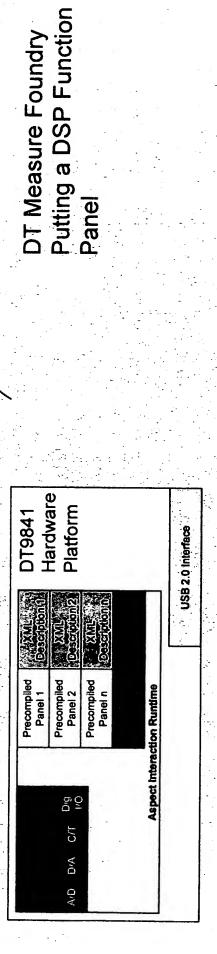
SHEET 8/19



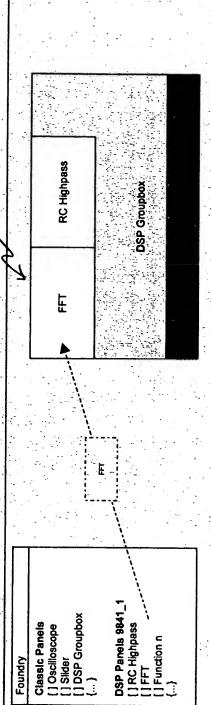
DT Measure Foundry Send the configuration Data back to the component



SHEET 4/19



DT Measure Foundry PC Software Platform

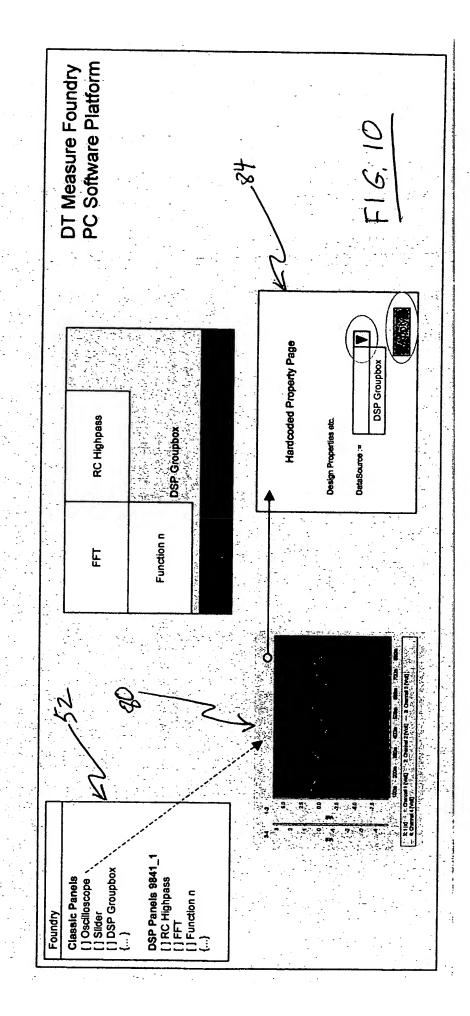


SHEET 10/19

Aspect Interaction Runtime

Panel 1 Description | Platform Panel 2 Description | Platform Panel n Description | Platform Pan

DT Measure Foundry Add Classic Component and Configure



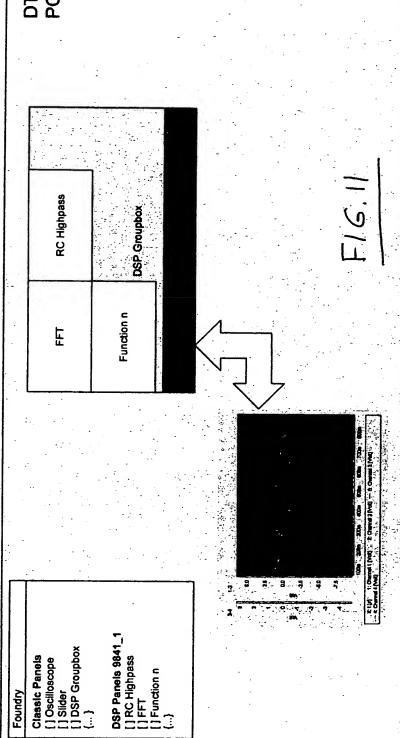
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DT Measure Foundry Add Classic

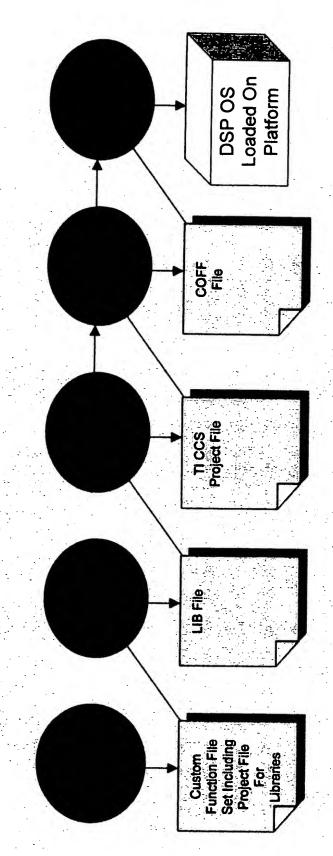
Components

A.D D.A C.T Dig Precompiled XML Panel 1 DT9841
Precompiled XML Panel 2 Description 2 Precompiled XML Panel 2 Description 2 Platform Panel 1 Description Number Panel 2 Description Number Panel 2 Description Number Panel 2 Description Number Panel 3 Description Numb

DT Measure Foundry PC Software Platform



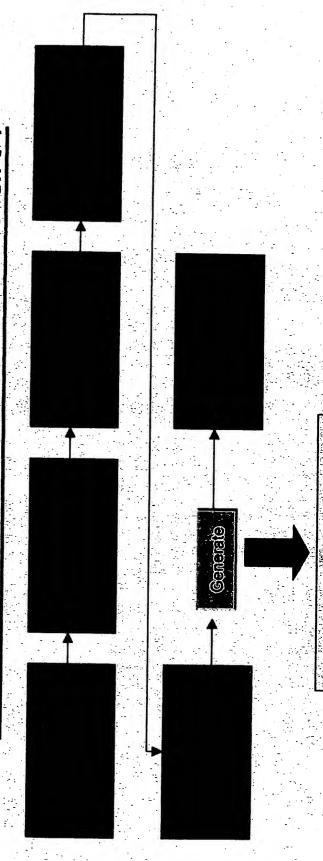
Overview

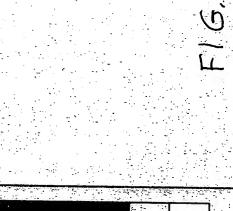


5 Steps are necessary to build a custom 9841 operating system Each step can be done manually or by using wizards

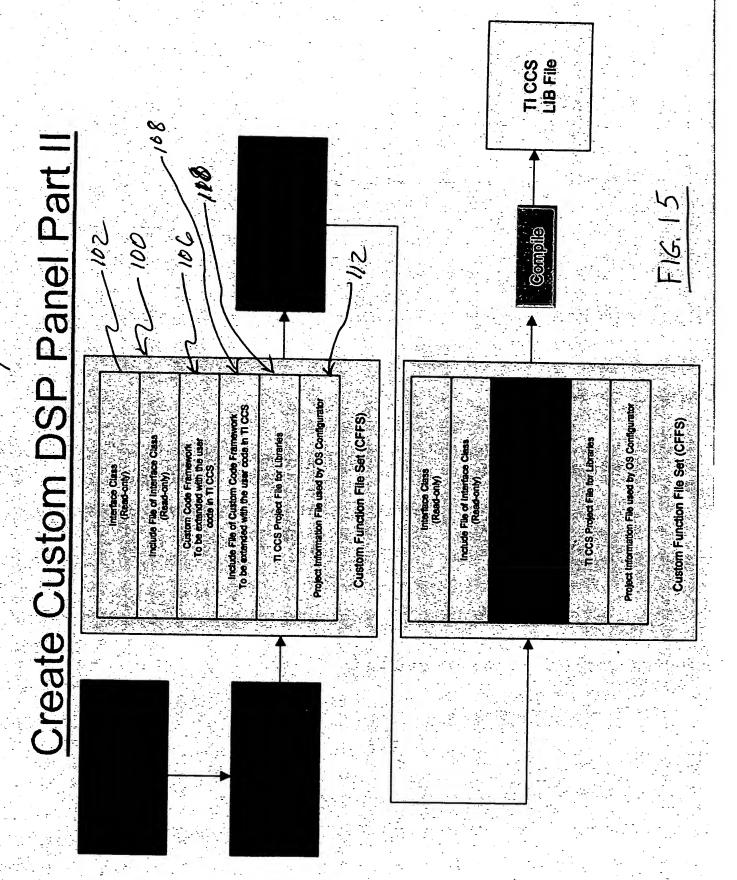
F16, 13

Create Custom DSP Panel Part





Project Information File used by OS Configurator



SHEET 16/19

Comparator	D/A output single value (control line)	D/A output buffered signal generator
Initialization	Finalization	Data Counter
Action Counter	Event Client	Vatue Pipe
Hub	Trigger	Digital Input
Digital Output	Counter	Host Connection
Intertask Connection	Task Controller	
Real FFT	Forward Lettice Radix 2	+
	{}	
	Computing Vector L Similar Function Set	ib or
	· • • • • • • • • • • • • • • • • • • •	
ese Funct	ion Library	•

SHEET 17/19

	Data Source Interface
	Control Interface
	Event Interface
	DSP Groupbox
	COFF File Loader Component
	Instrumentation Panel
Distribut	tion Wizard Extensions for Distribution of DSP Operating Systems (COFF)
	DTMF Implementation

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SHEET 18/19

Example Code
TI DSP Express Competible Wrapper Temptate for Algorithm Standard
Custom Framework Wizard
OS Configurator
OS Loader
Dynamia Eunation Library
Dynamic Function Library

SHEET 19/19

	Aspect Interaction Language Parser (AlLP)			
			A/D C/T LVDS*	D/A Dig. 10
	Resource Manager		· · · · · ·	·
×	Instrumentation Manager (BM)	-	: :	
: .	Memory Management for Component to Co	ompone	nt Conne	ctions
	Frame Management (Buffered Mode	Data Ac	quisition)
	Core Classes (CC)			* .
		· · · ·	<u> </u>	•